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Field Crops
Alberta
AGRICULTURE
92-03344/

February 1991 Agdex 142/33-23

Varietal Description of UI 36 Field Bean

Origin and breeding

UI 36 was developed at the University of Idaho, Moscow, Idaho and released in 1964. This variety was derived from a cross between UI 56 (Great Northern) and UI 34 (Red Mexican) made in 1953. The plant material was handled by pedigree selection. Selection for resistance to bean common mosaic virus and early maturity were conducted over eight generations.

Varietal characteristics

Growth habit: indeterminate; semi-vining

Leaves: dull green; wrinkled; small to medium in size

Stems: thin, wiry main stalk

Flowers: white

Pods: scattered, smooth; oval cross section; slightly curved

Seeds: shiny; monochrome dark red; hilum view is generally elliptical; side view is oval; elliptical to oval cross section; rounded ends

Plant height: intermediate

Lodging resistance: poor

Maturity: 112 days; similar to UI 111; later than Seafarer

Disease reaction: resistant to the common type and NY 15 strain of the common bean mosaic virus and the curly top virus; very susceptible to Fusaium root rot *(Fusarium oxysporum)*; susceptible to Sclerotinia rot *(Sclerotinia sclerotiorum)*

Performance

UI 36 has demonstrated acceptable yields, maturity and seed weight in western Canadian trials.

Maintenance of breeder seed

University of Idaho, Kimberly, Idaho

Canadian representative

Alberta Wheat Pool

Canadian distributor

Public

Recommended by

Western Expert Committee on Grain Breeding

Table 1. Agronomic performance of UI 36 and check varieties, Alberta Field Bean Trials, 1980-1987*

Variety	Type	Station Years	Maturity (d)	Yield (kg/ha)	Harvest Index (%)	1000 seed wgt. (g)
UI 36	Red Mexican	18	110.8	2875.3	56.5	295.9
Kentwood	Navy	7	113.0	1461.3	—	200.6
OAC Seaforth	Navy	6	108.2	2321.8	46.0	209.8
NW-63	Red Mexican	12	110.5	2948.4	58.0	323.4
UI 111	Pinto	20	111.0	2344.8	50.5	357.1

*Brooks and Bow Island

1991 02 3M

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